



## 1240L POWER AMPLIFIER

2000 Watts  
RF Power  
For: Industrial, Lab  
& Medical Use

- 20 KHz – 1MHz
- Power Measurement
  - o Forward & Reflected
- Solid State Reliability
- Forced Air Cooling



The 1240L Amplifier is a rugged source of RF power for ultrasonics, induction heating and laser modulation as well as plasma applications. It is a totally solid state solution employing RF DMoS FETs in the power amplification stages, offering simultaneous forward and reverse power readouts, and an RS232 port for data collection. The 1240L reflects E&I's commitment to reliable and robust RF power.

### Flexible Operation:

The 1240L produces 2000 Watts of quasi linear class AB power over a frequency range of 20 KHz to 1 MHz, with a nominal power gain of 58 dB (+/-2dB). Operation over the entire frequency range is possible without the need for any switching.

The front panel display provides simultaneous measurements of forward and reflected power as well as the unit's status. The RS232 connector at the rear of the unit can also be used to capture this data and reset the unit should a fault occur.

The E&I 1240L is a 19" rack mount unit 24.5" high. It employs an integral power supply capable of operation from 200-240 VAC 50-60 Hz. The unit weighs approximately 190 lbs or 90 Kg.

# 1240L POWER AMPLIFIER

## Class of Operation

Class AB

## Frequency Range

20 KHz to 1 MHz

## Rated Power Output

2,000 Watts

## Power Gain

58 dB nominal

## Gain Flatness

+/- 2 dB

## Input Power for Rated Output

3 mW or 5 dBm

## Input Impedance

50  $\Omega$  / VSWR, 1.5:1 Maximum

## Output Impedance

50  $\Omega$  / VSWR, 2:1 Maximum

## Ruggedness

Any load VSWR, any phase from open to Short circuit without damage.

## Front Panel Accuracy

+/- 3% of rated power

## Drive Source Requirements

Any signal Generator, function Generator or oscillator capable of up to 1.2 Vpp into 50  $\Omega$

## Protection:

INPUT: unit will withstand up to +13dBm input without damage.

THERMAL: the unit can operate at 45°C ambient. If the internal temperature becomes too high the unit will shut down and an error message will appear on the front panel. The unit may be re-set by cycling the power or from the RS232 input.

MISMATCH: the unit will tolerate any mismatch subject to thermal protection.

## Accessories Supplied

The unit is supplied with an operations manual and AC line cord.

## AC

200–240 VAC 47 – 63 Hz  
Max current 30 Amps

## Temperature Range

0 – 45°C

## Cooling

Forced air

## Weight

190 lbs (90 KG)

## Dimensions (H x W x D)

24.75" x 20" x 16.5"  
629 x 510 x 419 mm



150 Research Blvd.  
Rochester, NY 14623  
Tel: (585) 214 0598  
Fax: (585) 214 0580  
[www.eandiltd.com](http://www.eandiltd.com)